

Atty. Dkt. No. EPI3007B
(formerly TSRI 184.2C2)

THE CLAIMS

Please amend the claims as shown below.

Claims 1-80 (Cancelled).

81. (Previously presented) The plant of claim 83, wherein at least some of said product comprising a single immunoglobulin polypeptide is present within the cell wall of said plant cells.

82. (Previously presented) The plant of claim 83, wherein said product comprising a single immunoglobulin polypeptide is trafficked through the Golgi of said plant cells.

83. (Currently amended) A plant, comprising plant cells containing:

- a) nucleotide sequence encoding an immunoglobulin single polypeptide product comprising a single immunoglobulin polypeptide containing an immunoglobulin heavy chain ~~polypeptide~~, wherein said nucleotide sequence encodes a leader sequence forming a secretion signal for said single polypeptide product, said heavy chain obtained from an antigen-specific immunoglobulin comprising a heavy and light chain, and said single polypeptide product being capable of forming an antigen-specific immunoglobulin when co-expressed in a plant cell with said light chain from said antigen-specific immunoglobulin and wherein said plant cells do not contain nucleic acid encoding ~~said~~ **[[a]]** light chain; and
- b) immunoglobulin single polypeptide product encoded by said nucleotide sequence, wherein said leader sequence is cleaved from said single polypeptide product following proteolytic processing of said single polypeptide product.

Claims 84-86 (Cancelled)

87. (Previously presented) The plant of claim 84, wherein said product comprising a single immunoglobulin polypeptide associates to form a multimer of said heavy chain.

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88. (Cancelled)

89. (Previously presented) The plant of claim 83, wherein product comprising a single immunoglobulin polypeptide comprises a glycosylated immunoglobulin molecule free of sialic acid residues.

90. (Previously presented) The plant of claim 83, wherein the heavy chain is selected from the group consisting of IgG, IgM, IgA, IgD and IgE.

Claims 91-92 (Cancelled).

93. (Previously presented) The plant of claim 83, wherein the plant is a dicotyledonous plant.

94. (Previously presented) The plant of claim 83, wherein the plant is a monocotyledonous plant.

95. (Previously presented) The plant of claim 83, wherein the plant is an alga.

Claims 96-99 (Cancelled).